Peptides Sequences, Human, Mouse and Rat

A.

```
                                  ::  **.:
IB2   :  IPSPSVEEPHKHRPTTLRL--TTLGAQDS
IB1   :  PGTGCGDTYRPKRPTTLNLFPQVPRSQDT
c-Jun :  GAYGYSNPKILKQSMTLNLADPVGNLKPH
ATF2  :  TNEDHLAVHKHKHEMTLKFGPARNDSVIV
```

B.

```
              :  .  .******  *      **:
L-IB2  :  EEPHKHRPTTLRL--TTLGAQDS
L-IB1  :  DTYRPKRPTTLNLFPQVPRSQDT
                         °  °  °
```

C.

```
L-TAT     :  NH2- GRKKRRQRRR  -COOH
L-TAT-IB1 :  NH2- GRKKRRQRRRPPDTYRPKRPTTLNLFPQVPRSQDT  -COOH
L-TAT-IB2 :  NH2- GRKKRRQRRRPEEPHKHRPTTLRLTTLGAQDS  -COOH

D-TAT     :  NH2- RRRQRRKKRG  -COOH
D-TAT-IB1 :  NH2- TDQSRPVQPFLNLTTPRKPRYTDPPRRRQRRKKRG  -COOH
```

Fig.1

Generic Sequences, Human, Mouse and Rat

L-TAT-IB : NH₂- XXXXXXXXXRKKRRQRRRXXXXXXXXXRPTTLXLXXXXXXXQDS/TX -COOH

D-TAT : NH₂- XXXXRRRQRRKKRXXXXX -COOH

D-TAT-IB : NH₂- XT/SDQXXXXXXXLXLTTPRXXXXXXXXRRRQRRKKRXXXXXXXX -COOH

Fig.2

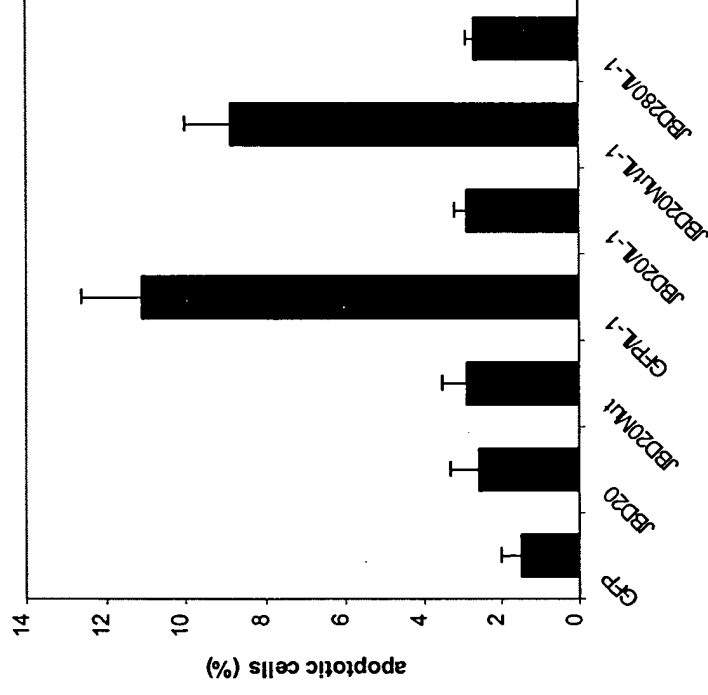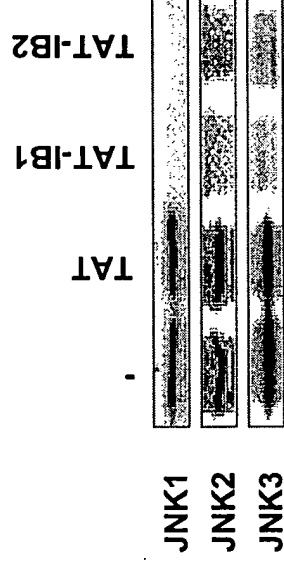## Effects of GFP-JBD$_{23}$ Construct on Pancreatic β-Cell Apoptosis

Fig. 3

Effects of TAT-IB Peptides on JNK Mediated Phosphorylation

Fig. 4a

Effects of TAT-IB Peptides on JNK Mediated Phosphorylation
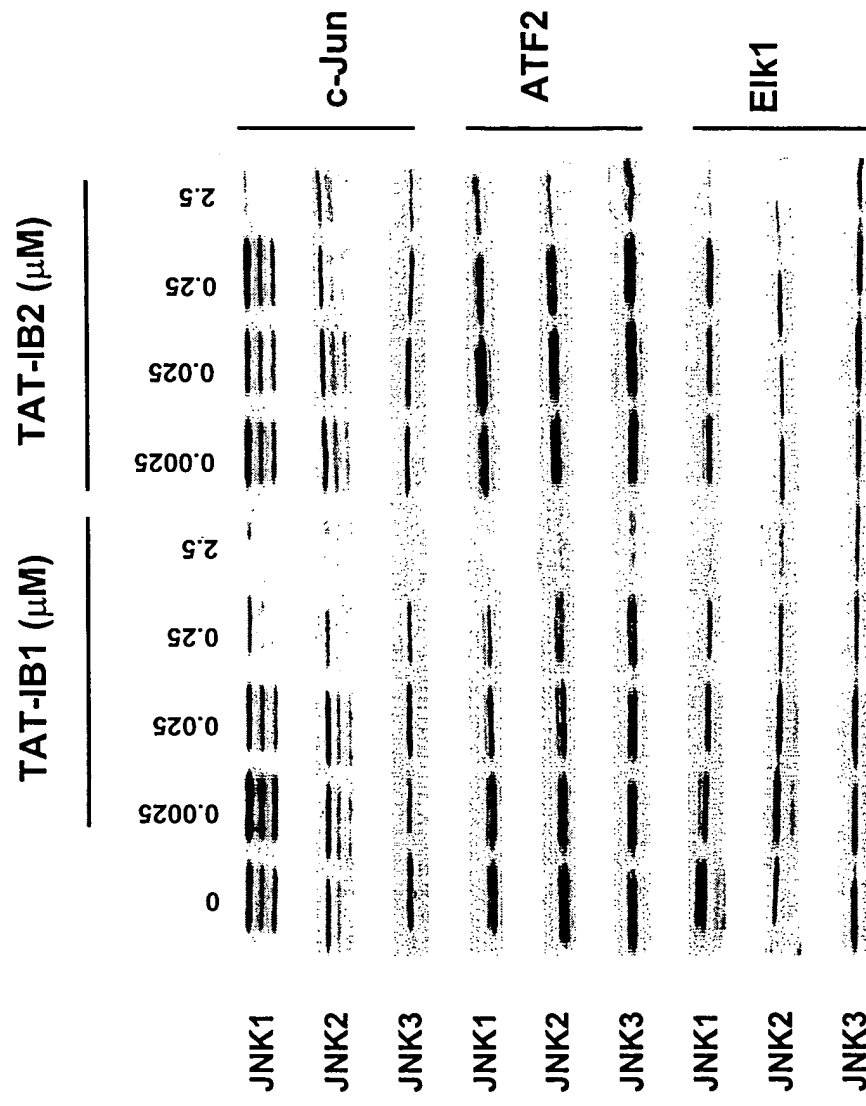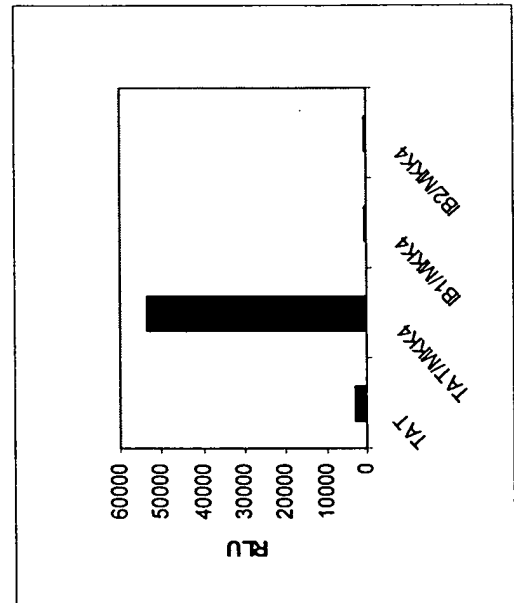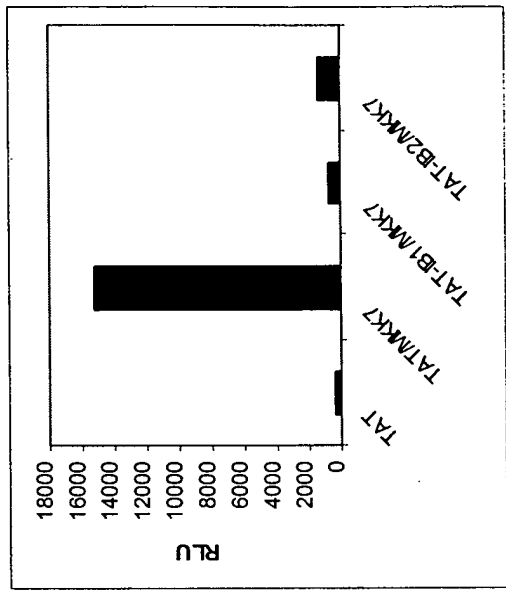

Fig. 4b

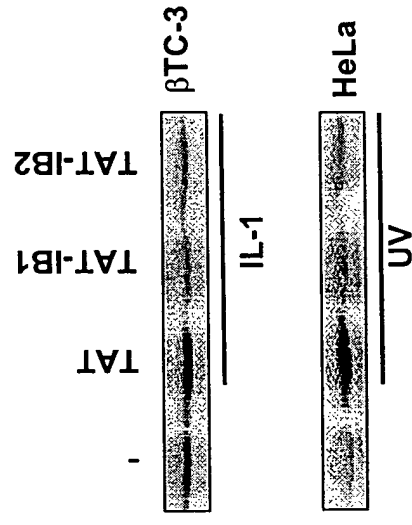L-TAT-IB Inhibition of Phosphorylation By
Recombinant JNKs

B.

A.

Fig. 5

In Vivo Inhibition of c-Jun Phosphorylation
by TAT-IB Peptides

Fig. 6

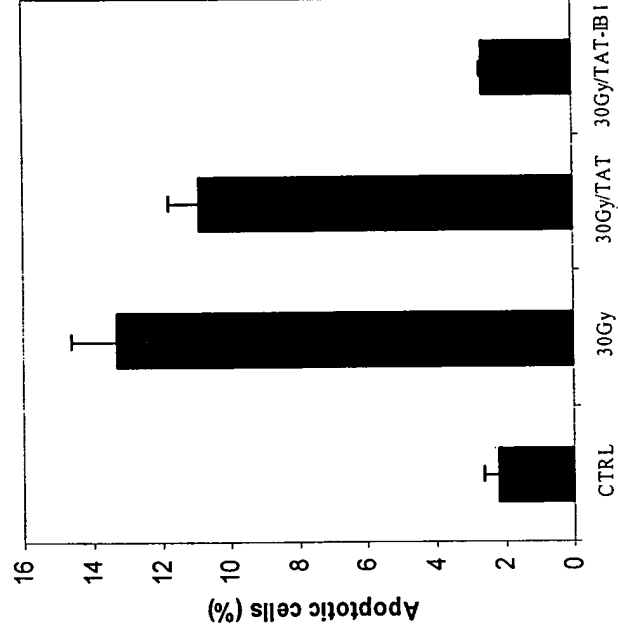## Inhibition of IL-1β Induced Pancreatic β-Cell Death by TAT-IB Peptides

Fig. 7

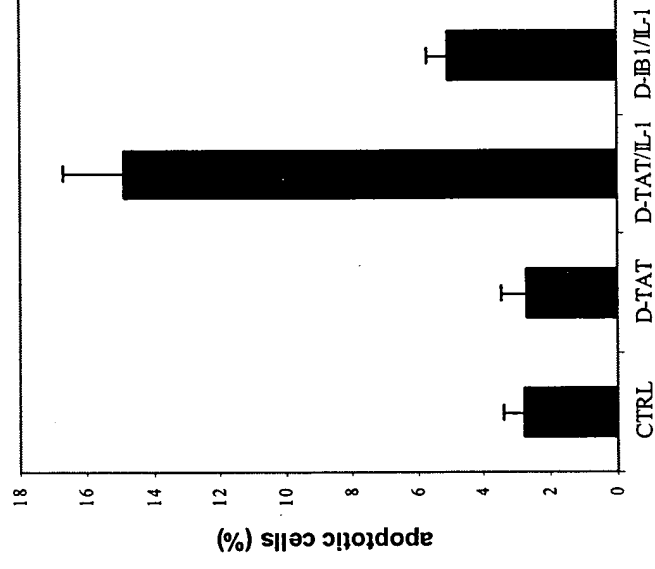## The D-TAT-IB1 peptide decreases IL-1-induced apoptosis in βTC-3 cells

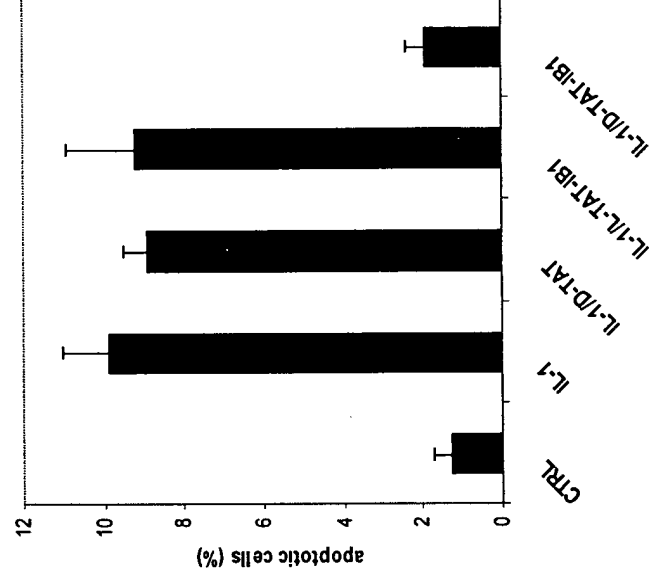*Fig.8*

The D-TAT-IB1 peptide confers long-term protection (15 days)
against IL-1-induced apoptosis in βTC-3 cells

Fig.9

L-TAT-IB1 and D-TAT-IB1 peptides prevent IR-induced apoptosis in a human colon cancer cell line
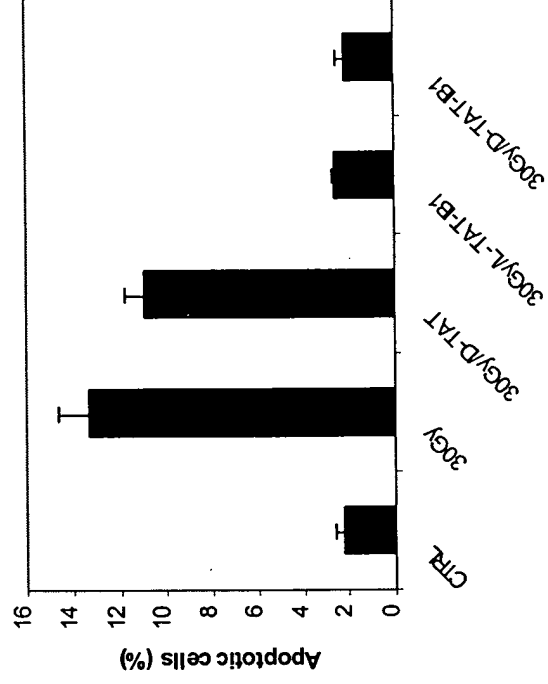

Fig.10

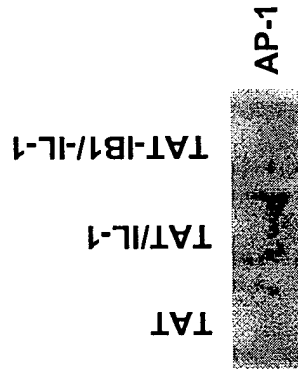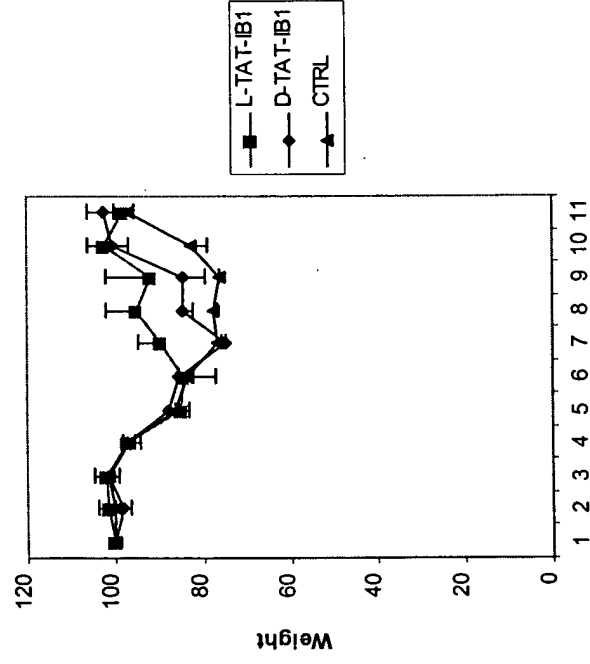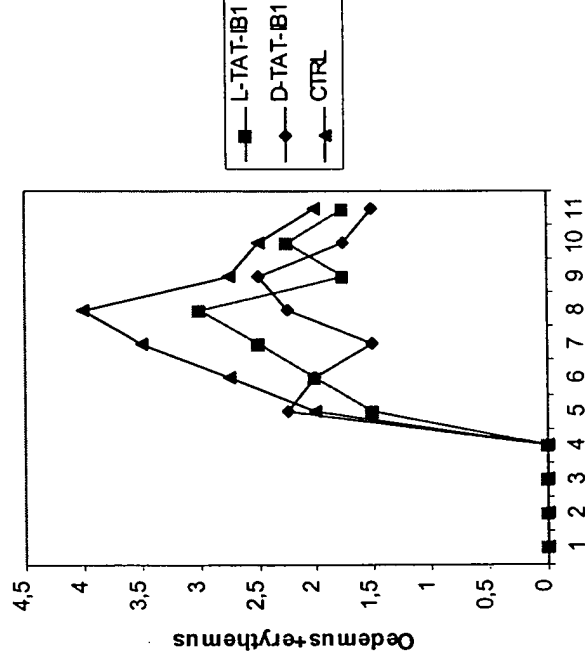## Suppression of JNK Transcription Factor Phosphorylation by L-TAT-IB1 Peptides

Fig. 11

Radioprotection to Ionizing Radiation by TAT-IB1 Peptides

A.

B.

Fig. 12